

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A circuit for use in a CDMA based communication system that has a receiver for receiving information intended for the system, via a plurality of dedicated channels, the information including multiple pilots from at least two of the channels, the circuit comprising:

a comparator that compares the powers of the multiple pilots from the plurality of dedicated channels to one another and outputs a pilot with the largest power level; and

a channel estimation circuit that is configured to perform channel estimation based on the pilot with the largest power level to derive associated channel parameters.

2. (original) A circuit for use in a CDMA based communication system that has a receiver for receiving information intended for the system, via a plurality of dedicated channels, the information including multiple pilots from at least two of the channels, the circuit comprising:

a channel estimation circuit that is configured to perform channel estimation on each of the dedicated channels, via each of

which a pilot is received by the system, to derive channel parameters associated with each channel; and
a combining circuit that is configured to combine all the channel parameters to derive final channel parameters.

3. (currently amended) The circuit of claim 1-~~or 2~~, further comprising a demodulator that demodulates the information intended for the system to retrieve user data.

4. (original) The circuit of claim 2, further comprising:
a detection circuit that is configured to evaluate the power amplitudes of the parameters to obtain an evaluation result and compare the evaluation result against a predetermined threshold value to generate a control signal; and

a comparator for comparing the powers amplitudes of the parameters to one another to output the largest power amplitude, the comparator making the comparison if the control signal indicates that the evaluation result is not greater than the threshold value;

wherein the combining circuit combines all the channel parameters if the control signal indicates that the evaluation result is greater than the threshold value.

5. (original) The circuit of claim 4, wherein the detection circuit evaluates the power amplitudes by calculating a power difference between each pair of the parameters for all possible combinations of the parameters and selecting a maximum power difference as the evaluating result.

6. (currently amended) The circuit of claim 4~~or 5~~, further comprising a demodulator that demodulates the information intended for the system, based on an output from one of the comparator and the combining circuit, to retrieve user data.

7. (original) A CDMA based communication system, comprising:
a receiver that receives information intended for the system, via a plurality of dedicated channels, the information including multiple pilots from at least two of the channels;
a comparator that compares the powers of the multiple pilots to one another and outputs a pilot with the largest power level;
a channel estimation circuit that is configured to perform channel estimation based on the pilot with the largest power level to derive associated channel parameters; and
a demodulator that demodulates the information intended for the system, based on the associated channel parameters, to retrieve user data.

8. (original) A CDMA based communication system, comprising:
a receiver that is configured to receive information intended
for the mobile terminal, via a plurality of dedicated channels, the
information including multiple pilots from at least two of the
channels;

a channel estimation circuit that is configured to perform
channel estimation on each of the dedicated channels, via each of
which a pilot is received by the system, to derive channel
parameters associated with each channel;

a combining circuit that is configured to combine all the
channel parameters to derive final channel parameters for
outputting; and

a demodulator that is configured to demodulate the information
intended for the system, based on at least an output of the
combining circuit, to retrieve user data.

9. (original) The system of claim 8, wherein the combining
circuit combines all the channel parameters by performing
arithmetic addition on these channel parameters.

10. (currently amended) The system of claim 8-~~or~~-9, further
comprising:

a detection circuit that is configured to evaluate the power amplitudes of the parameters to obtain an evaluation result and compare the evaluation result against a predetermined threshold value to generate a control signal; and

a comparator for comparing the powers amplitudes of the parameters to one another to output the largest power amplitude, the comparator making the comparison if the control signal indicates that the evaluation result is not greater than the threshold value;

wherein the combining circuit combines all the channel parameters if the control signal indicates that the evaluation result is greater than the threshold value;

wherein the demodulator demodulates the information intended for the system, based on an output from one of the comparator and the combining circuit, to retrieve user data.

11. (original) The system of claim 10, wherein the detection circuit evaluates the power amplitudes by calculating a power difference between each pair of the parameters for all possible combinations of the parameters and selecting a maximum power difference as the evaluating result.

12. (original) A method for use in a CDMA based communication system that has a receiver for receiving information intended for the system, via a plurality of dedicated channels, the information including multiple pilots from at least two of the channels, the method comprising the steps of:

comparing the powers of the multiple pilots from the plurality of dedicated channels to one another;

outputting a pilot with the largest power level; and

performing channel estimation based on the pilot with the largest power level to derive associated channel parameters.

13. (original) A method for use in a CDMA based communication system that has a receiver for receiving information intended for the system, via a plurality of dedicated channels, the information including multiple pilots from at least two of the channels, the method comprising the steps of:

performing channel estimation on each of the dedicated channels, via each of which a pilot is received by the system, to derive channel parameters associated with each channel;

outputting the channel parameters associated with each channel; and

combining all the channel parameters to derive final channel parameters.

14. (currently amended) The method of claim 12-~~or~~13,
further comprising the step of demodulating the information
intended for the system to retrieve user data.

15. (original) The method of claim 13, further comprising
the steps of:

evaluating the power amplitudes of the parameters to obtain an
evaluation result;

comparing the evaluation result against a predetermined
threshold value to generate a control signal; and

comparing the powers amplitudes of the parameters to one
another to output the largest power amplitude, if the control
signal indicates that the evaluation result is not greater than the
threshold value;

wherein the combining step is performed if the control signal
indicates that the evaluation result is greater than the threshold
value.

16. (original) The method of claim 15, wherein the
evaluating step is performed by calculating a power difference
between each pair of the parameters for all possible combinations

of the parameters and selecting a maximum power difference as the evaluating result.

17. (currently amended) The method of claim 15-~~or~~ 16,
further comprising the step of demodulating the information intended for the system, based on an output from one of the largest power amplitude and the final channel parameters, to retrieve user data.